

# AVATAR

## Application of Virtual Anastylis Techniques for Architectural Research

The protection, conservation, restoration, management, research, dissemination and enhancement of world Cultural Heritage (CH) must be approached from an interdisciplinary and multidisciplinary perspective.

The purpose of this project is **to contribute to anastylis techniques with a new approach** based on the latest technological fields.

AVATAR intends to **develop and optimize a set of procedures and tools to interpret the structural and conservation status in the architectural heritage**, supporting decision-making and promoting the change of current practices towards preventive approaches to conservation, under the slogan “It is better to prevent than cure”.

**Digital Twin (DT) approach will allow to have a digital representation (avatar) of the current status of the CH site**, also providing coherent and coordinated information related to the use cycle of CH elements. Thanks to the information of the current state of a site and the data obtained from historical sources and temporal analyses, it is possible to create multi-temporal virtual 4D reconstructions of the CH.

Thanks to knowledge achieved within the project it will be possible to **prevent CH deterioration in the future**. These developments will contribute towards European excellence, enriching the society and helping in the cultural integration of the respected assets.



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### PROJECT DURATION

24 months

From 01/04/2021 to 31/03/2023

### STAKEHOLDERS

The project will be developed by MSCA granted fellow **Miguel Angel Maté Gonzalez** at Politecnico di Torino - Department DIATI premises

### FUNDING INSTRUMENT

H2020-MSCA-ITN-2019

### BUDGET

Total Funding: **171.473,28 €**

### POLITO and DIATI's role:

Politecnico di Torino – DIATI is the coordinator of the project, under the scientific responsibility of

**Prof. Marco Piras**